

How Taiwan Pharmaceutical Industries Affected by and Cope with the U.S. Patent Linkage System

Pharmaceutical Industry Technology and Development Center Dr. Leah Lo, President of PITDC Dec. 2nd, 2014





Outline

- Background
 - ✓ Hatch-Waxman Act
 - Current Status of Pharmaceutical Industry
- Stress on the U.S. Legislation
- Emergent Issues of Patent Linkage
- Corresponding Strategies
- Conclusion





Background•Hatch-Waxman Act

- In 1984 · Drug Price Competition and Patent Term Restoration Act
 - Patent Term Restoration
 - Bolar Provision
 - ✓ Data Exclusivity
 - ✓ Patent Linkage (PL)
 - ✓ ANDA
- Orange Book





System of

granting

marketing

approval

for new drugs

System of

examining and

issuing

patents

U.S. Patent Linkage

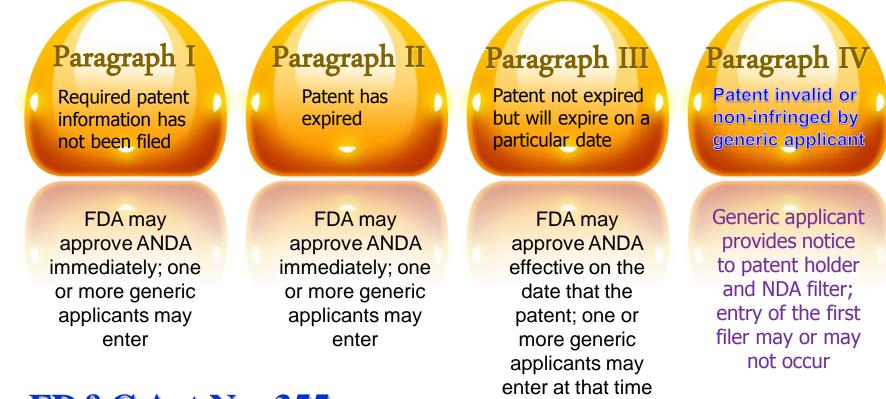
- Organizations in Charge
 - ✓ Patents are examined and issued by ∶ Patent and Trademark Office (PTO)
 - Approvals for marketing new drugs are granted
 by : Food and Drug Administration (FDA)
- ANDA Patent Certification
 - ✓ Paragraph I ~ IV





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ANDA Patent Certification



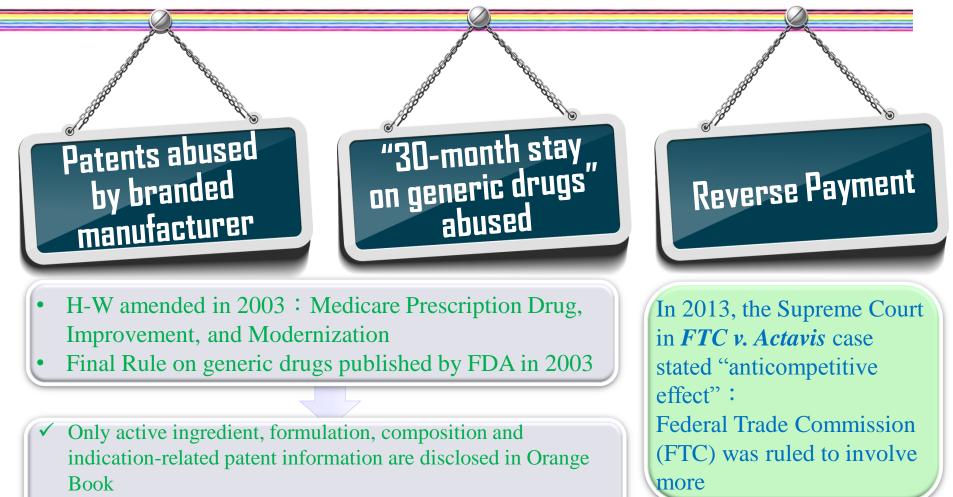
FD&C Act No. 355



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Past Problem and Follow-up of U.S. Patent Linkage



Branded manufactures are limited to a single 30-month stay

Background Current Status of Pharmaceutical Industr The U.S. becomes the third-largest importer of pharmaceutical product to Taiwan



Note : Ten medical-advanced countries (U.S., Canada, U.K., France, Belgium, Switzerland, Sweden, Germany, Japan, Australia) Source : Trade Statistics of Customs Administration ; Industrial Information of Development Center for Biotechnology 射團法人醫藥工業技術發展中心



Stress on the U.S. Legislation

- Patent Term Restoration / Extension
 - ✓ Article 53 of Patent Act
- Bolar Provision
 - ✓ Paragraph 5, Article 40-2 of Pharmaceutical Affairs Act
- Data Exclusivity
 - ✓ Paragraph 2, Article 40-2 of Pharmaceutical Affairs Act

Patent Linkage

✓ System not established



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Patent Term Restoration • Paragraph 1, Article 53 of Patent Act

Where a regulatory approval shall be obtained in accordance with other laws and regulations for the exploitation of an invention patent involving a pharmaceutical or agrichemical, or the manufacturing process thereof, if such regulatory approval is obtained after the publication of the concerned invention patent, the patentee may apply for one and only one extension of the patent term of said invention patent based on the first regulatory approval. The said regulatory approval is allowed to **be used only once for seeking patent term extension**.

The extension of the patent term approved under the preceding paragraph shall not exceed the length of time when the patent cannot be exploited because of the filing of a request for the regulatory approval with the central competent authorities in charge of the business. If the time needed to obtain the said regulatory approval exceeds five (5) years, the granted patent term extension shall still be five (5) years.



Bolar Provision Data Exclusivity

Paragraph 5, Article 40-2 of Pharmaceutical Affairs Act

The patent right of the new drug shall not be applicable to researches, teachings, or testing prior to the application for registration by the pharmaceutical firms.

Paragraph 2, Article 40-2 of Pharmaceutical Affairs Act

Vithin five years after the issuance of a license for new drug of new molecular entity, any other pharmaceutical firm may not apply for evaluation and registration of the same items by citing the data submitted by the licensee without such licensee's authorization.





Emergent Issues of Patent Linkage

- Listings of Orange Book
- Effects of Patent Extension
 - Patent Extension Abused by Patentee
- Exporting / Manufacturing of Domestic
 Pharmaceutical Products
- Incentive of Domestic Manufacturers to Challenge Paragraph IV



Listing of Pharmaceutical Patent Database (U.S./Canada/Korea)

Drug Information	U.S. Orange Book	Canada Patent Register	Korea Green List
Product name	0	0	0
Application No. (Drug Identification Number)	Ο	0	0
Approval Date	0	0	0
Active Ingredient	0	0	0
Dosage Form; Route	0	0	0
Strength	0	0	0
Applicant	0	0	Ο
Applicant address	Х	0	Ο
Patent Expiration date	0	0	Ο
Patent No.	0	0	Ο
Submission Type	Х	0	Х
Manufacturer	Х	0	Х
Manufacturer address	Х	Ο	X
RX/OTC/DISCN:	0	Х	X
TE Code	0	Х	X
Note: Refer to Dr. Xiong, Zheng-		0014	P 財團法人

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2014 PITDC

"The 63rd Pharmaceutical Affairs Forum" held on November 18, 2014

Listing of Pharmaceutical Patent Database (U.S./Canada/Korea)

Drug Information	U.S. Orange Book	Canada Patent Register	Korea Green List	
RLD	О	Х	Х	
Submission number	Х	0	Х	
Patent Filling date	Х	0	0	Y.
Patent Granted date	Х	0	Ο	
Patent holder	Х	Х	Ο	
Patent holder address	Х	Х	Ο	
Agency	Х	Х	Ο	
Agency address	Х	Х	0	;
Drug substance claim	0	Х	Х	
Drug product claim	0	Х	Х	
Detail information of claim	Х	Х	0) /
Use of Medicinal Ingredient	Х	0	Х	
Patent Use Code	0	Х	Х	
Patent Code	Х	0	Х	
Delist Requested	Ο	Х	Х	

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Note : Refer to Dr. Xiong, Zheng-hui's speech for "The 63rd Pharmaceutical Affairs Forum" held on November 18, 2014





Corresponding Strategies I.

- Build a reasonable system in Taiwan together with complementary measures referring to international patent linkage systems and the included drug information
 - The incentive for domestic generic manufacturers to challenge branded drugs,
 - ✓ Auto-substitution of generic drugs to branded drugs,
 - A mechanism to suspend issuing marketing approval during patent litigation,
- ✓ Corresponding measures to avoid patent extension being 2014 PITDC abused by patentee 14 2014 PITDC 財團法人醫藥工業技術發展中心



Listing of Pharmaceutical Patent Database (U.S./Canada/Korea)

Country	U.S.	Canada	Korea
Registered Patent Details	N/A	N/A	Relevant claims and descriptions in connection with drugs are required to be registered as well.
Notice to Patentee	0	0	0
Notice Given by	Generic manufacturer	Generic manufacturer	Generic manufacturer
Failure of Notice	N/A	N/A	MFDS can then demand the generic manufacturer to give a notice. However, a notice will be given by MFDS directly if the generic manufacturer fails to give such notice. (Being amended)
Automatic "Stay"	0	0	Request needs to be made. MFDS will make the decision after reviewing. (Being amended)
"Stay " up to	30 months	24 months	N/A
Exclusivity	180 days	N/A	12 months from the date generic sales begin (Being amended)





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Corresponding Strategies II.

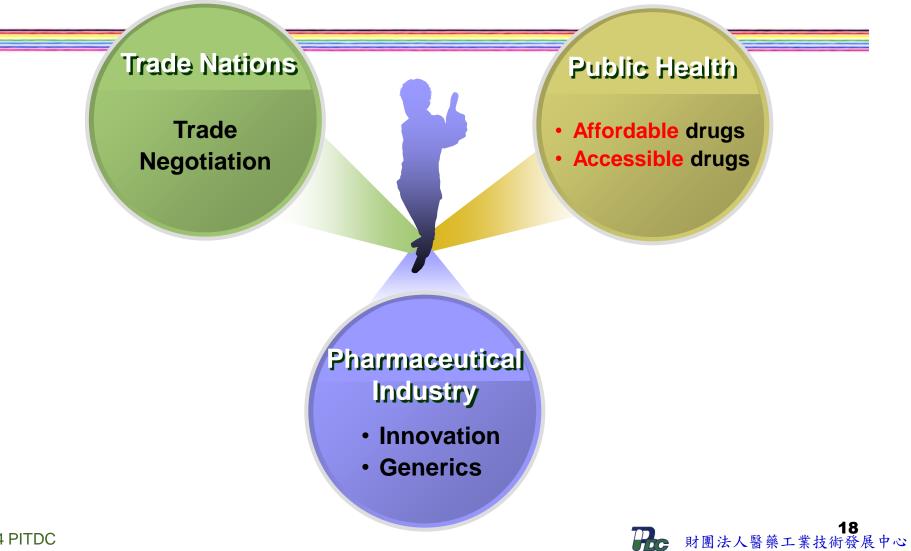
Cultivation and training for domestic professionals
 Experts in related industries, the government, academia, and research institutes to be united
 ✓ To build a more solid IPR environment through

opinions and discussions

 To pay respect to IPR and take account of industry development



Conclusion





Thank you



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